Abstract

The present invention provides an improved support blade structure 40 for use on a tension mask frame assembly 10. The support blade structure 40 is formed of a material having a first coefficient of thermal expansion and includes fastening portions 51 and an insert member 60 connected at a generally central location to the support blade structure 40. The insert member 60 is formed of a material having a second coefficient of thermal expansion and has a plurality of apertures 62, 64 extending in a row along its length. The aperatures 62, 64 are dimensioned to be larger than the fastening portions 51 passing therethrough to loosely connect the insert member 60 to the support blade structure 40. This allows the insert member 60 to be connected at the center while it's ends are free to slide relative to the support blade structure 40 during thermal cycling.

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